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EXAMINER

KE, PENG

ART UNIT PAPER NUMBER

2174

DATE MAILED: 12/20/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/608,434

Applicant(s)

KWON ET AL.

Examiner

Peng Ke

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-52 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-52 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

***Specification***

The abstract of the disclosure is objected to because in line the phrase “at least peripheral device” is not grammatically correct. Correction is required. See MPEP § 608.01(b).

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1, 3-15, 17-28, 30-41, and 43-52 are rejected under 35 U.S.C. 102(e) as being anticipated by Fado et al. (US 5,995,933).

As per independent claim 1, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising:

displaying a guide illustration on a display screen in response to user input, the illustration showing how to connect the main device and at least one peripheral device (Fig 21, items 262 and 264).

As per claim 3, which is dependent on claim 1, Fado et al. teaches the method of claim 1, wherein the guide illustration shows at least one terminal plate of the main device, at least one terminal plate of the peripheral device and a connection between the terminal plate of the main device and the terminal plate of the peripheral device (Fig 21, items 262 and 264).

As per claim 4, which is dependent on claim 1, Fado et al. teaches the method of claim 1, wherein the guide illustration shows at least one terminal plate of the main device, the terminal plate of more than one peripheral device, and a connection between the terminal plate of the main device and the terminal plate of at least one peripheral device (Fig 21, items 262 and 264).

As per claim 5, which is dependent on claim 1, Fado et al. teaches the method of claim 1, wherein the guide illustration shows each terminal plate of the main device, the terminal plate of more than one peripheral device, and a connection between one of the terminal plates of the main device and the terminal plate of at least one peripheral device (Fig 21, items 262 and 264).

As per independent claim 6, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising:

displaying an illustration on a display screen in response to user input, the illustration showing at least one connecting portion of a main device, a connecting portion of at least one peripheral device, and a connection between the peripheral device and the main device (Fig 21, items 262 and 264).

As per claim 7, which is dependent on claim 6, Fado et al. teaches the method of claim 6 wherein the illustration includes an animation to show the connection between the main device and the peripheral device (col 8, lines 56-65).

As per claim 8, which is dependent on claim 6, Fado et al. teaches the method of claim 6, wherein the illustration shows the connection between the peripheral device and the main device in a highlighted form (col 12, lines 61-68, col 13, lines 1-13, col 14, lines 13-29).

As per claim 9, which is dependent on claim 8, Fado et al. teaches the method of claim 8, wherein the highlighted form is a color which differs from a remainder of the illustration (col 14, lines 13-29).

As per claim 10, which is dependent on claim 8, Fado et al. teaches the method of claim 8, wherein the connecting portion of the main device is a connecting portion on an outside surface of the main device (Fig 21, items 262 and 264).

As per claim 11, which is dependent on claim 6, Fado et al. teaches the method of claim 6, wherein the displaying step displays the illustration on the display screen of the main device (Fig 21, items 262 and 264, col 2, lines 63-65).

As per claim 12, which is dependent on claim 6, Fado et al. teaches the method of claim 6, wherein the illustration shows a plurality of connecting portions of the main device (Fig 21, items 262 and 264, Fig 40, item 390).

As per claim 13, which is dependent on claim 6, Fado et al. teaches the method of claim 6, wherein the illustration shows the connecting portion of a plurality of peripheral devices (Fig 21, items 262 and 264).

As per claim 14, which is dependent on claim 6, Fado et al. teaches the method of claim 6, further comprising: displaying a menu having a plurality of menu items, each menu item associated with at least one of a plurality of peripheral devices (Fig 5, items 124, 126, 128, 130, and 132);

receiving user input on a selected menu item (Fig 5, item 124); and

wherein the displaying an illustration step displays an illustration associated with the selected menu item (Fig 21, items 262 and 264, Fig 23, item 284).

As per claim 15, which is dependent on claim 14, Fado et al. teaches the method of claim 14, wherein the displaying a menu step displays each menu item as an icon, each icon representing one or combination of peripheral devices (Fig 5, item 124, Fig 21, items 262 and 264, Fig 23, item 284).

As per claim 17, which is dependent on claim 14, Fado et al. teaches the method of claim 14, wherein the receiving step receives signals from an input device providing instructions on moving a cursor displayed on the display screen onto one of the menu items (Fig 5, items 124, 126, 128, 130, and 132).

As per independent claim 18, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising: displaying an illustration on a display screen in response to user input, the illustration showing at least one connecting portion of a main device and a connection to the main device for a particular peripheral device (Fig 21, items 262 and 264).

As per claim 19, which is dependent on claim 18, it is of the same scope as claim 12 (see rejection above).

As per independent claim 20, Fado et al. teaches a method of assisting a user make a connection between a main device and a peripheral device, comprising: displaying an illustration on a display screen in response to first user input, the illustration showing at least one connecting portion of the main device and the connecting portion of at least one peripheral device (Fig 21, items 262 and 264).

As per claim 21, which is dependent on claim 20, Fado et al. teaches the method of claim 20, further comprising: adding a connection illustration to the displayed illustration in response

to second user input, the connection illustration showing a connection between the connecting portion of the peripheral device and the connecting portion of the main device (col 8, lines 30-55). The examiner is inferring to the fact that a user can select a headset or a battery adapter, and depends on his/her selections the program would provide the user with different instructions.

As per claim 22, which is dependent on claim 20, Fado et al. teaches the method of claim 20, further comprising: displaying a second illustration on the display screen in response to second user input, the second illustration showing the connecting portion of the main device, the connecting portion of the peripheral device and a connection between the connecting portion of the peripheral device and the connecting portion of the main device (Fig 7, item 142).

As per claim 23, which is dependent on claim 20, Fado et al. teaches the method of claim 20, wherein the displaying step displays each connecting portion of the main device (Fig 21, item 266, Fig 23, item 286).

As per claim 24, which is dependent on claim 20, Fado et al. teaches the method of claim 20, wherein the displaying step displays each connecting portion of the main device and the connecting portion of more than one peripheral device (Fig 22, item 272).

As per independent claim 25, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising: displaying an illustration on a display screen in response to user input, the illustration visually demonstrating a connection to make between a connection portion of at least one peripheral device and at least one connecting portion of a main device (Fig 21, items 262 and 264).

As per independent claim 26, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising: displaying an illustration

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directing a user on a connection to make between a connecting portion of at least one peripheral device and at least one connecting portion of a main device on a display screen in response to user input (Fig 21, items 262 and 264).

As per independent claim 27, Fado et al. teaches a method of assisting a user to make a connection between a main device and a peripheral device, comprising: displaying an illustration guiding a user on a connection to make between a connecting portion of at least one peripheral device and at least one connecting portion of a main device on a display screen in response to user input (Fig 21, items 262 and 264).

As per independent claim 28, Fado et al. teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising: a display screen; a display controller displaying a guide illustration on said display screen in response to user input, the guide illustration showing how to connect the main device and at least one peripheral device (Fig 21, items 262 and 264).

As per claim 30, which is dependent on claim 28, Fado et al. teaches the apparatus of claim 28, wherein the peripheral device is one of a video cassette recorder, a digital versatile disk drive, a broadcast antenna, a satellite receiver, a cable box, a disk drive, speakers, a mouse, and a printer (Fig 21, items 262 and 264). The examiner is inferring a headphone as a set of speakers.

As per claim 31, which is dependent on claim 38, Fado et al. teaches the apparatus of claim 28, further comprising: a memory storing a plurality of guide illustrations, each guide illustration corresponding to one or a combination of peripheral devices (Fig 48, item 5).



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As per claim 32, which is dependent on claim 28, Fado et al teaches the apparatus of claim 28, wherein display controller is a display controller of the main device (Fig 48, items 17 and 19)

As per independent claim 33, Fado et al teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising: a display screen; a display controller displaying an illustration on said display screen in response to user input, the illustration showing at least one connecting portion of a main device, a connecting portion of at least one peripheral device, and a connection between the peripheral device and the main device (Fig 21, items 262 and 264).

As per claim 34, which is dependent on claim 33, it is of the same scope as claim 7 (see rejection above).

As per claim 35, which is dependent on claim 33, it is of the same scope as claim 8 (see rejection above).

As per claim 36, which is dependent on claim 35, it is of the same scope as claim 9 (see rejection above).

As per claim 37, which is dependent on claim 33, it is of the same scope as claim 31 (see rejection above).

As per claim 38, which is dependent on claim 33, it is of the same scope as claim 12 (see rejection above).

As per claim 39, which is dependent on claim 33, it is of the same scope as claim 13 (see rejection above).

As per claim 40, which is dependent on claim 33, it is of the same scope as claim 14 (see rejection above).

As per claim 41, which is dependent on claim 40, it is of the same scope as claim 15 (see rejection above).

As per claim 43, which is dependent on claim 40, it is of the same scope as claim 16 (see rejection above).

As per independent claim 44, Fado et al. teaches an apparatus for assisting a user to make a connection to a main device, comprising:

- display screen;

- a display controller displaying an illustration on said display screen in response to user input, the illustration showing at least one connecting portion of the main device and a connection to the main device for a particular peripheral device (Fig 21, items 262 and 264).

As per independent claim 45, Fado et al. teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising:

- a display screen;

- a display controller displaying a first illustration on said display screen in response to first user input, the illustration showing at least one connecting portion of the main device and the connecting portion of at least one peripheral device (Fig 21, items 262 and 264).

As per claim 46, Fado et al. teaches the apparatus of claim 45, wherein the display controller adds a connection illustration to the displayed illustration in response to second user input, the connection illustration showing a connection between the connecting portion of the peripheral device and the connecting portion of the main device (Fig 5, items 124, 126, 128, 130,

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and 132, Fig 21, items 262 and 264, Fig 23, item 284). The examiner is inferring to the fact a user can select a plurality of items from the menu and receive instructions regarding those item by pressing the next button.

As per claim 47, which is dependent on claim 46, it is of the same scope as claim 31. (see rejection above)

As per claim 48, which is dependent on claim 45, Fado et al. teaches the apparatus of claim 45, wherein the display controller displays a second illustration on the display screen in response to second user input, the second illustration showing the connecting portion of the main device, the connecting portion of the peripheral device and a connection between the connecting portion of the peripheral device and the connecting portion of the main device (Fig 21, items 262 and 264).

As per claim 49, which is dependent on claim 46, it is of the same scope as claim 31. (see rejection above)

As per independent claim 50, Fado et al. teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising: a display screen; a display controller displaying an illustration on said display screen in response to user input, the illustration visually demonstrating a connection to make between a connection portion of at least one peripheral device and at least one connecting portion of a main device (Fig 21, items 262 and 264).

As per independent claim 51, Fado et al. teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising: a display screen; a display controller displaying an illustration directing a user on a connection to make between a

connecting portion of at least one peripheral device and at least one connecting portion of a main device on said display screen in response to user input (Fig 21, items 262 and 264).

As per independent claim 52, Fado et al. teaches an apparatus for assisting a user to make a connection between a main device and a peripheral device, comprising: a display screen; a display controller displaying an illustration guiding a user on a connection to make between a connecting portion of at least one peripheral device and at least one connecting portion of a main device on said display screen in response to user input (Fig 21, items 262 and 264).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fado et al. (US 6,342,903) in view of Yoshino et al. (US 6,131,111).

As per claim 2, which is dependent on claim 1, Fado et al. teaches the method of claim 1. However Fado doesn't teach the method wherein the main device is one of a television receiver and a personal computer. Yoshino teaches a television receiver connecting to a personal computer (Fig 1, items 103, 105 and 108). It would have been obvious to an artisan at the time of the invention to include Yoshino's teaching with Fado et al.'s method in order to provide the user with an interactive guide for connecting a television receiver and a PC.

Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fado et al. (US 5,995,933) in view of Yoshino et al. (US 6,131,111).

As per claim 29, which is dependent on claim 28, Fado et al. teaches the apparatus of claim 28. However Fado doesn't teach the method wherein the main device is one of a television receiver and a personal computer. Yoshino teaches a television receiver connecting to a personal computer (Fig 1, items 103, 105 and 108). It would have been obvious to an artisan at the time of the invention to include Yoshino's teaching with Fado et al.'s method in order to provide the user with an interactive guide for connecting a television receiver and a PC.

As per claim 16, which is dependent on claim 14, Fado et al. teaches the method of claim 14. However, Fado et al. doesn't teach the method wherein the receiving step receives a signal from an input device indicating that a key of the input device associated with one of the menu items has been operated by the user. Choi teaches a method which required the user to enter a ID from the input device to access the device. It would have been obvious to an artisan at the time of the invention to include Choi's teaching with Fado et al.'s method in order to prevent unauthorized user from using the device.

As per claim 42, which is dependent on claim 40, it is of the same scope as claim 16. (see rejection above).

### ***Conclusion***

The following patent is cited to further show the state of the art with respect to a interactive guide:

Barnard: (US 5,680,323) discloses a multimedia player

Obradovich et al.:(US 6,459,961) discloses a technique for providing information upon a notable condition in a vehicle.

*Kristine Kincaid*  
**KRISTINE KINCAID**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**

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Nakamura et al.: (US 6,263,499) discloses a upgrading an application software to be used, by communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peng Ke whose telephone number is (703) 305-7615. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KRISTINE L KINCAID can be reached on (703) 308-0640. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Peng Ke  
December 13, 2002